

A Newsletter for the flora of New Mexico, from the Range Science Herbarium and Cooperative Extension Service, College of Agricultural, Consumer, and Environmental Sciences, New Mexico State University.

In This Issue —

- New Mexico Mosses.. 1
- Plant Distribution Reports.....11

MOSSES OF NEW MEXICO

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Total families = 38
Total genera = 130
Total species = 302
Total taxa = 312

Family AMBLYSTEGIACEAE

Amblystegium fluviatile (Hedwig) Bruch, Schimper, & Gumbel = *Hygroamblystegium varium* (Hedwig) Mönkemeyer
Amblystegium humile (Beauvois) Bruch, Schimper, & Gumbel = *Hygroamblystegium varium* (Hedwig) Mönkemeyer
Amblystegium juratzkanum = *Amblystegium serpens* (Hedwig) Bruch & Schimper var. *juratzkanum* (Schimper) Rau & Hervey

Amblystegium noterophilum (Sullivant & Lesquereux) Holzinger = *Hygroamblystegium varium* (Hedwig) Mönkemeyer
Amblystegium riparium (Hedwig) Schimper = *Leptodietyum riparium* (Hedwig) Warnstorf
Amblystegium serpens (Hedwig) Bruch & Schimper var. *juratzkanum* (Schimper) Rau & Hervey = *Amblystegium serpens* (Hedwig) Bruch & Schimper

Amblystegium serpens (Hedwig) Bruch & Schimper [Bartram 1931; Mahler 1978]

Amblystegium juratzkanum Schimper

Amblystegium serpens (Hedwig) Bruch & Schimper var. *juratzkanum* (Schimper) Rau & Hervey

Amblystegium tenax (Hedwig) C. Jensen = *Hygroamblystegium varium* (Hedwig) Mönkemeyer

Amblystegium varium (Hedwig) Lindberg = *Hygroamblystegium varium* (Hedwig) Mönkemeyer

Calliergon stramineum (Bridel) Kindberg = *Straminergon stramineum* (Bridel) Hedenäs

Campyliadelphus chrysophyllus (Bridel) Kanda [Bartram 1931; Mahler 1978]

Campylium chrysophyllum (Bridel) J. Lange

Campylophyllum hispidulum (Bridel) Hedenäs [Bartram 1931; Mahler 1978]

Campylium hispidulum (Bridel) Mitten

Campylium chrysophyllum (Bridel) J. Lange = *Campyliadelphus chrysophyllus* (Bridel) Kanda

Campylium hispidulum (Bridel) Mitten = *Campylophyllum hispidulum* (Brid.) Hedenäs

Campylium radicale (P. Beauvois) Grout = *Pseudocampylium radicale* (P. Beauvois) Vanderpoorten & Hedenäs

Campylium stellatum (Hedwig) C. Jensen [Conard & Redfearn 1979; Lawton 1971]

Couardia compacta (Müller Hal.) Robinson [Mahler 1978]

Rhynchostegiella compacta (Müller Hal.) Loeske

Cratoneuron commutatum of American reports = *Palustriella falcata* (Bridel) Hedenäs

Cratoneuron decipiens of American reports = *Palustriella falcata* (Bridel) Hedenäs

Cratoneuron filicinum (Hedwig) Spruce [Bartram 1931; Mahler 1978]

Drepanocladus aduncus (Hedwig) Warnstorf [Bartram 1931; Mahler 1978; Wynne 1944]

Drepanocladus aduncus (Hedwig) Warnstorf var. *kneiffii* (Schimper) Mönkemeyer

Drepanocladus aduncus (Hedwig) Warnstorf var. *polycarpus* (Blandow ex Voit) Roth

Drepanocladus aduncus (Hedwig) Warnstorf var. *kneiffii* (Schimper) Mönkemeyer = *Drepanocladus aduncus* (Hedwig) Warnstorf

Drepanocladus aduncus (Hedwig) Warnstorf var. *polycarpus* (Blandow ex Voit) Roth = *Drepanocladus aduncus* (Hedwig) Warnstorf

Drepanocladus sendtneri (Schimper) Warnstorf: this species not yet known from North America [BFNA ined.]; reported by various authors; our material is referred to *Drepanocladus aduncus* (Hedwig) Warnstorf;

Drepanocladus sendtneri (Schimper) Warnstorf var. *wilsonii*

Drepanocladus fluitans (Hedwig) Warnstorf = *Warnstorffia fluitans* (Hedwig) Loeske

Drepanocladus sendtneri var. *wilsonii* = *Drepanocladus sendtneri* Warnstorf

Drepanocladus uncinatus (Hedwig) Warnstorf = *Sanionia uncinata* (Hedwig) Loeske

Hygroamblystegium fluviatile (Hedwig) Loeske = *Hygroamblystegium varium* (Hedwig) Mönkemeyer

Hygroamblystegium orthocladon (P. Beauvois) Macoun & Kindberg = *Hygroamblystegium varium* (Hedwig) Mönkemeyer

Hygroamblystegium noterophilum (Sullivant & Lesquereux in Sullivant) Warnstorf = *Hygroamblystegium varium* (Hedwig) Mönkemeyer Holzinger

Botanice est Scientia Naturalis quae Vegetabilium cognitorem tradit.
— Linnaeus



Hygroamblystegium tenax (Hedwig) Jennings = *Hygroamblystegium varium* (Hedwig) Mönkemeyer

Hygroamblystegium varium (Hedwig) Mönkemeyer [Bartram 1931; Mahler 1978]

Amblystegium humile (Beauvois) Bruch, Schimper, & Gumbel

Amblystegium fluviatile (Hedwig) Bruch, Schimper, & Gumbel

Amblystegium varium (Hedwig) Lindberg

Hygroamblystegium noterophilum (Sullivant & Lesquereux in Sullivant) Warnstorf

Hygroamblystegium orthocladon (P. Beauvois) Macoun & Kindberg

Hygroamblystegium tenax (Hedwig) Jennings

Leptodictyum humile (P. Beauvois) Ochyra

Leptodictyum trichopodium (Schulz) Warnstorf

Hygrohypnum luridum (Hedwig) Jennings var. *julaceum* (Schimper) Podpera = *Hygrohypnum luridum* (Hedwig) Jennings

Hygrohypnum luridum (Hedwig) Jennings [Bartram 1931; Mahler 1978]

Hygrohypnum luridum (Hedwig) Jennings var. *julaceum* (Schimper) Podpera

Hygrohypnum molle (Hedwig) Loeske [Bartram 1931; Mahler 1978]

Hygrohypnum ochraceum (Turner ex Wilson) Loeske [Mahler 1985]

Leptodictyum humile (P. Beauvois) Ochyra = *Hygroamblystegium varium* (Hedwig) Mönkemeyer

Leptodictyum riparium (Hedwig) Warnstorf [Prior 1966]

Amblystegium riparium (Hedwig) Schimper

Leptodictyum trichopodium (Schulz) Warnstorf = *Hygroamblystegium varium* (Hedwig) Mönkemeyer

Palustriella falcata (Bridel) Hedenäs [Allred et al. 1998]

Cratoneuron commutatum of North American reports

Cratoneuron decipiens of North American reports

Palustriella commutata of North American reports

Palustriella decipiens of North American reports

Palustriella commutata of North American reports = *Palustriella falcata* (Bridel) Hedenäs

Palustriella decipiens of North American reports = *Palustriella falcata* (Bridel) Hedenäs

Platydictya jungermannioides (Bridel) Crum [Mahler 1978]

Pseudocampylum radicale (P. Beauvois) Vanderpoorten & Hedenäs [Mahler 1985]

Campylum radicale (P. Beauvois) Grout

Sanionia uncinata (Hedwig) Loeske [Bartram 1931; Mahler 1978; Wynne 1944]

Drepanocladus uncinatus (Hedwig) Warnstorf

Straminergon stramineum (Bridel) Hedenäs [Flowers 1973]

Calliergon stramineum (Bridel) Kindberg

Tomentypnum nitens (Hedwig) Loeske [Crum & Anderson 1981]

Warnstorfia fluitans (Hedwig) Loeske [Price 2011]

Drepanocladus fluitans (Hedwig) Warnstorf

Hypnum fluitans Hedwig

Family ANDREAEACEAE

Andreaea heinemannii Hampe & Müller Hal. [Mahler 1985]

Andreaea rupestris sensu Mahler (1985)

Family ANOMODONTACEAE

Anomodon attenuatus (Hedwig) Hübener [Bartram 1931; Mahler 1978]

Anomodon miuor (Hedwig) Fürnrohr [Ireland et al. 1984]

Anomodon rostratus (Hedwig) Schimper [Bartram 1931; Mahler 1978]

Family AULACOMNIACEAE

Aulacomnium palustre (Hedwig) Schwägrichen [Bartram 1931; Mahler 1978]

Aulacomnium palustre (Hedwig) Schwägrichen var. *imbricatum* Bruch & Schimper

Aulacomnium palustre (Hedwig) Schwägrichen var. *imbricatum* Bruch & Schimper = *Aulacomnium palustre* (Hedwig) Schwägrichen

Family BARTRAMIACEAE

Anacolia laevisphaera (Taylor) Flowers [Mahler 1978]

Anacolia subsessilis (Taylor) Brotherus

Anacolia menziesii (Turner) Paris [Weber et al. 2003]

Anacolia subsessilis (Taylor) Brotherus = *Anacolia laevisphaera* (Taylor) Flowers

Bartramia brevifolia Bridel [Allred et al. 1998]

Bartramia ithyphylla Bridel [Bartram 1931; Mahler 1978]

Bartramia potosica Montagne [Allred et al. 1998]

Philonotis capillaris Lindberg [Mahler 1978]

Philonotis fontana (Hedwig) Bridel var. *americana* (DiSmith) Flowers ex Crum [Flowers 1973]

Philonotis fontana (Hedwig) Bridel var. *caespitosa* (Juratzka) Schimper [Stark & Castetter 1982]

Philonotis fontana (Hedwig) Bridel var. *fontana* [Bartram 1931; Mahler 1978]

Philonotis fontana (Hedwig) Bridel var. *pumila* (Turner) Bridel [Bartram 1931; Mahler 1978]

Philonotis tomentella Molendo

Philonotis marchica (Hedwig) Bridel [Bartram 1931; Mahler 1978]

Philonotis tomentella Molendo = *Philonotis fontana* (Hedwig) Bridel var. *pumila* (Turner) Bridel

Family BRACHYTHECIACEAE

Brachytheciastrum collinum (Schleicher ex Müller Hal.) Ignatov & Huttunen = *Brachythecium collinum* (Schleicher ex Müller Hal.) Schimper

Brachytheciastrum fendleri (Sullivant) Ochyra & Żarnowiec = *Brachythecium fendleri* (Sullivant) Jaeger

Brachytheciastrum velutinum (Hedwig) Ignatov & Huttunen = *Brachythecium velutinum* (Hedwig) Bruch & Schimper

Brachythecium acuminatum (Hedwig) Austin [Bartram 1931; Mahler 1978]

Brachythecium acutum (Mitten) Sullivant = *Brachythecium salebrosum* (Weber & Mohr) Schimper

Brachythecium albicans (Hedwig) Schimper [Stark & Castetter 1982]

Brachythecium collinum (Schleicher ex Müller Hal.) Schimper [Bartram 1931; Mahler 1978]

Brachytheciastrum collinum (Schleicher ex Müller Hal.) Ignatov & Huttunen

Brachythecium erythrorrhizon Schimper [Bartram 1931; Mahler 1978]

Brachythecium fendleri (Sullivant) Jaeger [Bartram 1931; Mahler 1978]

Brachytheciastrum fendleri (Sullivant) Ochyra & Żarnowiec

Brachythecium utahense James

Brachythecium laetum (Bridel) Schimper in B.S.G. [Worthington 1996]

Brachythecium oxycladon (Bridel) Jaeger

Brachythecium latifolium Kindberg [Allred et al. 1998]

Sciuro-hypnum latifolium (Kindberg) Ignatov & Huttunen

Brachythecium nelsonii Grout

Brachythecium nelsonii Grout = *Brachythecium latifolium* Kindberg

Brachythecium oedipodium (Mitten) Jaeger [Allred et al. 1998]

Sciuro-hypnum oedipodium (Mitten) Ignatov & Huttunen

Brachythecium oxycladon (Bridel) Jaeger = *Brachythecium laetum* (Bridel) Schimper in B.S.G.

Brachythecium petrophilum R.S. Williams = *Brachythecium velutinum* (Hedwig) Schimper var. *venustum* (De Notaris) Arcangeli

Brachythecium plumosum (Hedwig) Bruch & Schimper [Mahler 1985]

Sciuro-hypnum plumosum (Hedwig) Ignatov & Huttunen

Brachythecium populeum (Hedwig) Bruch & Schimper [Bartram 1931; Mahler 1978]

Sciuro-hypnum populeum (Hedwig) Ignatov & Huttunen

Brachythecium rivulare Bruch & Schimper [Bartram 1931; Mahler 1978]

Brachythecium ruderales (Bridel) W.R. Buck [Grout 1926; Mahler 1978]

Brachythecium stereopoma (Spruce ex Mitten) Jaeger

Brachythecium wootonii Grout

Brachythecium salebrosum (Weber & Mohr) Bruch & Schimper [Bartram 1931; Lawton 1971; Mahler 1978; 1985]

Brachythecium acutum (Mitten) Sullivant

Brachythecium stereopoma (Spruce ex Mitten) Jaeger = *Brachythecium ruderales* (Bridel) W.R. Buck

Brachythecium utahense James = *Brachythecium fendleri* (Sullivant) Jaeger

Brachythecium velutinum (Hedwig) Bruch & Schimper var. *velutinum* [Mahler 1978]

Brachytheciastrum velutinum (Hedwig) Ignatov & Huttunen



Brachythecium velutinum (Hedwig) Bruch & Schimper var. ***venustum*** (De Notaris) Arcangeli [Bartram 1931; Mahler 1978]

Brachythecium petrophilum R.S. Williams

Brachythecium wootonii Grout = *Brachythecium ruderales* (Bridel) W.R. Buck

Eurhynchium diversifolium Schimper = *Eurhynchium pulchellum* (Hedwig) Jennings

Eurhynchium hians (Hedwig) Sande Lacouture : Reported by Conard & Redfearn (1979) and Grout (1928-40), but validating specimens have not been located.

Eurhynchium pulchellum (Hedwig) Jennings [Bartram 1931; Mahler 1978]

Eurhynchium diversifolium Schimper

Rhynchostegium pulchellum (Hedwig) Robinson

Eurhynchium praelongum (Hedwig) Schimper = *Kindbergia praelonga* (Hedwig) Ochyra

Kindbergia praelonga (Hedwig) Ochyra : Reported tentatively by Worthington (1996)

Eurhynchium praelongum (Hedwig) Schimper

Platyhypnidium riparioides (Hedwig) Dixon = *Rhynchostegium aquaticum* Jaeger

Rhynchostegiella compacta (Müller Hal.) Loeske = *Conardia compacta* (Müller Hal.) Robinson

Rhynchostegium pulchellum (Hedwig) Robinson = *Eurhynchium pulchellum* (Hedwig) Jennings

Rhynchostegium aquaticum Jaeger [Allred et al. 1998]

Platyhypnidium riparioides (Hedwig) Dixon

Rhynchostegium serrulatum (Hedwig) Jaeger & Sauerbeck [Stark & Castetter 1982]

Steerecleus serrulatus (Hedwig) Robinson

Sciuro-hypnum latifolium (Kindberg) Ignatov & Huttunen = *Brachythecium latifolium* Kindberg

Sciuro-hypnum oedipodium (Mitten) Ignatov & Huttunen = *Brachythecium oedipodium* (Mitten) Jaeger

Sciuro-hypnum plumosum (Hedwig) Ignatov & Huttunen = *Brachythecium plumosum* (Hedwig) Bruch & Schimper

Sciuro-hypnum populium (Hedwig) Ignatov & Huttunen = *Brachythecium populium* (Hedwig) Bruch & Schimper

Steerecleus serrulatus (Hedwig) Robinson = *Rhynchostegium serrulatum* (Hedwig) Jaeger & Sauerbeck

Family BRYACEAE

Brachymenium klotzschii (Schwägrichen) Paris : Reported by Conard & Redfearn (1979) but validating specimens have not been located.

Brachymenium macrocarpum Cardot

Brachymenium macrocarpum Cardot = *Brachymenium klotzschii* (Schwägrichen) Paris

Brachymenium systylium (Müller Hal.) Jaeger = *Leptostomopsis systylia* (Müller Hal.) J.R. Spence.

Bryum affine Lindberg & Arnell = *Bryum creberrimum* Taylor

Bryum algovicum Sendtner ex Müller Hal. = *Ptychostomum pendulum* Hornschuch

Bryum andicola Hooker = *Rosulabryum andicola* (Hooker) Ochyra

Bryum argenteum Hedwig [Bartram 1931; Mahler 1978]

Bryum bicolor Dickson = *Bryum dichotomum* Hedwig

Bryum billardieri Schwägrichen = *Rosulabryum andicola* (Hooker) Ochyra

Bryum bolanderi Sullivant = *Pohlia bolanderi* (Sullivant) Brotherus

Bryum caespitium Hedwig = *Gemmabryum caespitium* (Hedwig) J.R. Spence

Bryum capillare Hedwig = *Rosulabryum capillare* (Hedwig) J.R. Spence

Bryum creberrimum Taylor = *Ptychostomum creberrimum* (Taylor) J.R. Spence & H.P. Ramsay

Bryum cyclophyllum (Schwägrichen) Bruch & Schimper = *Ptychostomum cyclophyllum* (Schwägrichen) J.R. Spence

Bryum dichotomum Hedwig = *Gemmabryum dichotomum* (Hedwig) Spence & Ramsay

Bryum drummondii Müller Hal. = *Pohlia drummondii* (Müller Hal.) Andrews

Bryum gemmiparum De Notaris = *Imbribryum gemmiparum* (De Notaris) J.R. Spence

Bryum incrassatolimbatum Cardot = *Plagiobryoides incrassatolimbatum* (Cardot) J.R. Spence

Bryum laevifilum Syed = *Rosulabryum laevifilum* (Syed) Ochyra

Bryum lanatum (P. Beauvois) Bridel [Allred 2011]

Bryum lisae De Notaris var. *cuspidatum* (Bruch ex Schimper) Margadant = *Ptychostomum creberrimum* (Taylor) J.R. Spence & H.P. Ramsay

Bryum lonchocaulon Müller Hal. = *Ptychostomum lonchocaulon* (Müller Hal.) J.R. Spence

Bryum miniatum Lesquereux = *Imbribryum miniatum* (Lesquereux) J.R. Spence

Bryum muehlenbeckii Bruch & Schimper = *Imbribryum muehlenbeckii* (Bruch & Schimper) Pedersen

Bryum pallens (Bridel) Swartz = *Ptychostomum pallens* (Bridel) J.R. Spence

Bryum pallescens Schleicher ex Schwägrichen = *Ptychostomum pallescens* (Schleicher ex Schwägrichen) J.R. Spence

Bryum pendulum (Hornschuch) Schimper = *Ptychostomum pendulum* Hornschuch

Bryum pseudotriquetrum (Hedwig) Gaertner et al. = *Ptychostomum pseudotriquetrum* (Hedwig) J.R. Spence

Bryum pyriferum Crundwell & Whitehouse = *Bryum valparaisense* Thériot

Bryum tortifolium Funck in Bridel = *Bryum cyclophyllum* (Schwägrichen) Bruch & Schimper

Bryum turbinatum (Hedwig) Turner = *Ptychostomum turbinatum* (Hedwig) J.R. Spence

Bryum uliginosum (Bridel) Bruch & Schimper = *Ptychostomum cernuum* Hornschuch

Bryum valparaisense Thériot = *Gemmabryum valparaisense* (Thériot) J.R. Spence

Gemmabryum caespitium (Hedwig) J.R. Spence [Allred et al. 1998]

Bryum caespitium Hedwig

Gemmabryum dichotomum (Hedwig) Spence & Ramsay [Allred et al. 1998]

Bryum bicolor Dickson

Bryum dichotomum Hedwig

Gemmabryum valparaisense (Thériot) J.R. Spence [Ireland et al. 1981, 1984]

Bryum pyriferum Crundwell & Whitehouse

Bryum valparaisense Thériot

Imbribryum gemmiparum (De Notaris) J.R. Spence [Ireland et al. 1981]

Bryum gemmiparum De Notaris

Imbribryum miniatum (Lesquereux) J.R. Spence [Stark & Castetter 1982]

Bryum miniatum Lesquereux

Imbribryum muehlenbeckii (Bruch & Schimper) Pedersen [Ireland et al. 1981]

Bryum muehlenbeckii Bruch & Schimper

Leptobryum : Go to Meesiaceae

Leptostomopsis systylia (Müller Hal.) J.R. Spence [Mahler 1978]

Brachymenium systylium (Müller Hal.) Jaeger

Plagiobryoides incrassatolimbatum (Cardot) J.R. Spence [Darigo & Allred 2001]

Bryum incrassatolimbatum Cardot

Pohlia : Go to Mniaceae

Ptychostomum cernuum Hornschuch [Mahler 1978]

Bryum uliginosum (Bridel) Bruch & Schimper

Ptychostomum creberrimum (Taylor) J.R. Spence & H.P. Ramsay [Bartram 1931; Mahler 1978]

Bryum affine Lindberg & Arnell

Bryum creberrimum Taylor

Bryum lisae De Notaris var. *cuspidatum* (Bruch ex Schimper) Margadant

Ptychostomum cyclophyllum (Schwägrichen) J.R. Spence [Stark & Castetter 1982]

Bryum cyclophyllum (Schwägrichen) Bruch & Schimper

Bryum tortifolium Funck in Bridel

Ptychostomum lonchocaulon (Müller Hal.) J.R. Spence [Mahler 1978]

Bryum lonchocaulon Müller Hal.

Ptychostomum pallens (Bridel) J.R. Spence [Allred et al. 1998]

Bryum pallens (Bridel) Swartz

Ptychostomum pallescens (Schleicher ex Schwägrichen) J.R. Spence [Allred et al. 1998]

Bryum pallescens Schleicher ex Schwägrichen

Ptychostomum pendulum Hornschuch [Bartram 1931; Mahler 1978]

Bryum pendulum (Hornschuch) Schimper

Bryum algovicum Sendtner ex Müller Hal.



Ptychostomum pseudotriquetrum (Hedwig) J.R. Spence [Bartram 1931; Mahler 1978]

Bryum pseudotriquetrum (Hedwig) Gaertner et al.

Ptychostomum turbinatum (Hedwig) J.R. Spence [Bartram 1931; Mahler 1978]

Bryum turbinatum (Hedwig) Turner

Rhodobryum ontariense (Kindberg) Kindberg [Mahler 1985]

Rhodobryum roseum (Hedwig) Limpricht : Reported by Stark & Castetter (1986), but identification corrected to *Rhodobryum ontariense* (Kindberg) Kindberg

Rosulabryum andicola (Hooker) Ochyra [BFNA ined.; Mohamed 1979]

Bryum billardieri Schwägrichen

Rosulabryum capillare (Hedwig) J.R. Spence [Bartram 1931; Mahler 1978]

Bryum capillare Hedwig

Rosulabryum laevifilum (Syed) Ochyra [BFNA ined.]

Bryum laevifilum Syed

Webera longicollis Hedwig = *Pohlia longicollis* (Hedwig) Lindberg

Webera nutans Hedwig = *Pohlia nutans* (Hedwig) Lindberg

Family BRYOXIPHIACEAE

Bryoxiphium norvegicum (Bridel) Mitten [Allred et al. 1998]

Family CLIMACIACEAE

Climacium americanum Bridel [Mahler 1985]

Climacium dendroides (Hedwig) Weber & Mohr [Bartram 1931; Mahler 1978]

Family DICRANACEAE

Dichodontium pellucidum (Hedwig) Schimper [Allred et al. 1998]

Dicranella varia (Hedwig) Schimper [Ireland et al. 1981]

Dicranoweisia cirrata (Hedwig) Lindberg ex Milde [Mahler 1978]

Dicranoweisia crispula (Hedwig) Lindberg ex Milde [Bartram 1931; Mahler 1978]

Dicranum acutifolium (Lindberg & Arnell) Jensen [Ireland 2007]

Dicranum brevifolium (Lindberg) Lindberg [Ireland 2007]

Dicranum fuscescens Turner var. *fuscescens* [Allred et al. 1998]

Dicranum montanum Hedwig [Bartram 1931; Mahler 1978]

Dicranum muehlenbeckii Bruch & Schimper [Bartram 1931; Mahler 1978]

Dicranum rhabdocarpum Sullivan [Bartram 1931; Mahler 1978]

Dicranum scoparium Hedwig [Allred et al. 1998]

Oncophorus virens (Hedwig) Bridel [Bartram 1931; Mahler 1978]

Oncophorus wahlenbergii Bridel [Allred et al. 1998]

Paraleucobryum enerve (Thedenius) Loeske [Bartram 1931; Mahler 1978]

Paraleucobryum longifolium (Hedwig) Loeske [Bartram 1931; Mahler 1978]

Rhabdoweisia crispata (Dickson ex Withering) Lindberg [Allred 2011]

Symblepharis helicophylla Montagne = *Symblepharis vaginata* (Hooker) Wijk & Margadant

Symblepharis vaginata (Hooker) Wijk & Margadant [Ireland et al. 1984; Mahler 1978]

Symblepharis helicophylla Montagne

Family DITRICHACEAE

Ceratodon purpureus (Hedwig) Bridel subsp. *purpureus* [Bartram 1931; Mahler 1978]

Ceratodon purpureus (Hedwig) Bridel subsp. *stenocarpus* (Bruch & Schimper) Dixon [Darigo & Allred 2001]

Ceratodon stenocarpus Bruch & Schimper = *Ceratodon purpureus* (Hedwig) Bridel subsp. *stenocarpus* (Bruch & Schimper) Dixon

Distichium capillaceum (Hedwig) Bruch & Schimper [Bartram 1931; Mahler 1978]

Ditrichum flexicaule (Schwägrichen) Hampe [Allred et al. 1998]

Ditrichum gracile (Mitten) Kuntze [Allred 2011]

Saelania glaucescens (Hedwig) Brotherus [Bartram 1931; Mahler 1978]

Didymodon trifarius (Hedwig) Rohling

Family ENCALYPTACEAE

Encalypta ciliata Hedwig [Bartram 1931; Mahler 1978]

Encalypta rhaptocarpa Schwägrichen [Conard & Redfearn 1979]

Encalypta vulgaris Hedwig [Chamberlain 1925; Bartram 1931]

Family ENTODONTACEAE

Entodon cladorrhizans (Hedwig) Müller Hal. : Reported by Mahler (1978), but identification corrected to *Entodon schleicheri* (Schimper) Demeter [Darigo & Allred 2001]

Entodon concinnus (De Notaris) Paris [Bartram 1931; Mahler 1978]

Entodon orthocarpus (Bridel) Lindberg

Entodon orthocarpus (Bridel) Lindberg = *Entodon concinnus* (De Notaris) Paris

Entodon schleicheri (Schimper) Demeter [Buck & Crum 1978]

Entodon sullivantii (Müller Hal.) Lindberg [Crum & Anderson 1981]

Family FABRONIACEAE

Fabronia ciliaris (Bridel) Bridel [Bartram 1931; Mahler 1978]

Fabronia ciliaris (Bridel) Bridel var. *wrightii* (Sullivant) Buck

Fabronia gymnostoma Sullivant & Lesquereux ex Sullivant

Fabronia octoblepharis (Schleicher) Schwägrichen

Fabronia wrightii Sullivant

Fabronia ciliaris (Bridel) Bridel var. *wrightii* (Sullivant) Buck = *Fabronia ciliaris* (Bridel) Bridel

Fabronia gymnostoma Sullivant & Lesquereux ex Sullivant = *Fabronia ciliaris* (Bridel) Bridel

Fabronia octoblepharis (Schleicher) Schwägrichen = *Fabronia ciliaris* (Bridel) Bridel

Fabronia pusilla Raddi [Mahler 1978]

Fabronia wrightii Sullivant = *Fabronia ciliaris* (Bridel) Bridel

Family FISSIDENTACEAE

Fissidens bryoides Hedwig [Grout 1928-1940; Mahler 1978; Stark & Castetter 1982]

Fissidens bryoides Hedwig var. *pusillus* (Wilson) Pursell

Fissidens bryoides Hedwig var. *viridulus* (Swartz) Brotherus

Fissidens exiguus Sullivant forma *emarginatus* Grout

Fissidens viridulus (Swartz) Wahlenberg

Fissidens bryoides Hedwig var. *pusillus* (Wilson) Pursell = *Fissidens bryoides* Hedwig

Fissidens bryoides Hedwig var. *viridulus* (Swartz) Brotherus = *Fissidens bryoides* Hedwig

Fissidens crispus Montagne [Darigo & Allred 2001; Mahler 1978]

Fissidens exiguus Sullivant forma *emarginatus* Grout = *Fissidens bryoides* Hedwig var. *bryoides*

Fissidens fontanus (B.-Pyl.) Steudel [Weber 1973]

Fissidens limbatus Sullivant : Reported by Mahler (1978), but our material is referred to *Fissidens crispus* Montagne [Darigo & Allred 2001]

Fissidens littlei (Williams) Grout [Allred 1998; Williams 1936]

Moenkemeyera littlei Williams

Fissidens obtusifolius Wilson var. *acuminatus* Grout [Eckel 1986]

Fissidens obtusifolius Wilson var. *apiculatus* Grout : Reported by Stark & Castetter (1982), but identification corrected to *Fissidens sublimbatus* Grout by Ron Pursell. [Darigo & Allred 2001]

Fissidens sublimbatus Grout [Pursell 2007]

Fissidens viridulus (Swartz) Wahlenberg = *Fissidens bryoides* Hedwig

Moenkemeyera littlei Williams = *Fissidens littlei* (Williams) Grout

Family FONTINALACEAE

Fontinalis antipyretica Hedwig [Mahler 1978; Welch 1963]

Fontinalis hypnoides Hartman var. *hypnoides* [Allred et al. 1998]

Fontinalis neomexicana Sullivant & Lesquereux [Bartram 1931; Mahler 1978, Sullivant & Lesquereux 1856]

Family FUNARIACEAE

Entosthodon attenuatus (Dickson) Bryhn [Miller & Miller 2007]

Entosthodon rubiginosus (Williams) Grout [Ireland et al. 1984]

Funaria americana Lindberg [Stark & Castetter 1982]

Funaria apiculatopilosa Cardot [Worthington 1996]

Funaria orcuttii Bartram



Funaria calvescens Schwägrichen = *Funaria hygrometrica* Hedwig var. *calvescens* (Schwägrichen) Montagne

Funaria flavicans Michaux [Miller & Miller 2007]

Funaria hygrometrica Hedwig var. *calvescens* (Schwägrichen) Montagne [Darigo & Allred 2001]

Funaria calvescens Schwägrichen

Funaria hygrometrica Hedwig var. *hygrometrica* [Bartram 1931; Mahler 1978]

Funaria hygrometrica Hedwig var. *italiensis* Grout

Funaria hygrometrica Hedwig var. *italiensis* Grout = *Funaria hygrometrica*

Funaria muhlenbergii Turner [Merrill & Merrill 2007]

Funaria orcuttii Bartram = *Funaria apiculatopilosa* Cardot

Physcomitrium pyriforme (Hedwig) Hampe [Ireland et al. 1984]

Pyramidula tetragona (Bridel) Bridel [Goffinet 2007]

Family GIGASPERMACEAE

Lorentziella imbricata (Mitten) Brotherus [Allred et al. 1998]

Family GRIMMIACEAE

Coscinodon calyptratus (Hooker) C. Jensen ex Kindberg [Bartram 1931; Hastings 1999; Mahler 1978]

Grimmia calyptrata Hooker

Coscinodon cribrosus (Hedwig) Spruce [Hastings 1999; Ireland et al. 1984]

Grimmia cribrosa Hedwig

Coscinodon wrightii Sullivant in Gray = *Jaffuelobryum wrightii* (Sullivant in Gray) Thériot

Grimmia affinis Hoppe & Hornschuch ex Hornschuch = *Grimmia longirostris* Hooker

Grimmia alpestris (Weber & Mohr) Schleicher [Hastings & Greven 2007]

Grimmia ingeri of New Mexico reports

Grimmia alpicola of American authors = *Schistidium agassizii* Sullivant & Lesquereux

Grimmia alpicola Swartz ex Hedwig var. *rivularis* = *Schistidium rivulare* (Bridel) Podpera var. *rivulare*

Grimmia anodon Bruch & Schimper [Bartram 1931; Mahler 1978]

Grimmia apocarpa Hedwig var. *ambigua* (Sullivant) G. Jones in Grout = *Schistidium apocarpum* (Hedwig) Bruch & Schimper

Grimmia apocarpa Hedwig var. *apocarpa* = *Schistidium apocarpum* (Hedwig) Bruch & Schimper

Grimmia apocarpa Hedwig var. *conferta* (Funck) Sprengel = *Schistidium apocarpum* (Hedwig) Bruch & Schimper

Grimmia apocarpa Hedwig var. *stricta* = *Schistidium apocarpum* (Hedwig) Bruch & Schimper

Grimmia arizonae Renault & Cardot [Hastings & Greven 2007; Weber et al. 2003]

Grimmia bernoullii Mueller Hal. = *Grimmia ovalis* (Hedwig) Lindberg

Grimmia calyptrata Hooker = *Coscinodon calyptratus* (Hooker) C. Jensen ex Kindberg

Grimmia catalinensis Bartram = *Grimmia longirostris* Hooker

Grimmia converta Funck var. *obtusifolia* Schimper = *Schistidium apocarpum* (Hedwig) Bruch & Schimper

Grimmia cribrosa Hedwig = *Coscinodon cribrosus* (Hedwig) Spruce

Grimmia crinitoleucophaea Cardot [Hastings & Greven 2007]

Grimmia poecilostoma Cardot & Seville

Grimmia elatior Bruch ex Balsamo-Crivelli & De Notaris [Darigo & Allred 2001]

Grimmia donniana Smith : Reported by Mahler (1978), but material re-identified as *Grimmia longirostris* Hooker [Darigo & Allred 2001]

Grimmia laevigata (Bridel) Bridel [Mahler 1978]

Grimmia longirostris Hooker [Darigo & Allred 2001]

Grimmia affinis Hornschuch

Grimmia catalinensis Bartram

Grimmia montana Bruch & Schimper [Darigo & Allred 2001]

Grimmia orbicularis Bruch ex Wilson [Mahler 1978]

Grimmia ovalis (Hedwig) Lindberg [Bartram 1931; Mahler 1978]

Grimmia bernoullii Mueller Hal.

Grimmia pilifera Beauvois [Darigo & Allred 2001]

Grimmia plagiopodia Hedwig [Mahler 1978]

Grimmia poecilostoma Cardot & Seville = *Grimmia crinitoleucophaea* Cardot

Grimmia pulvinata (Hedwig) Smith [Mahler 1978]

Grimmia ranii Austin = *Jaffuelobryum ranii* Thériot

Grimmia sessitana De Notaris [Hastings & Greven 2007]

Grimmia tenerrima Renault & Cardot

Grimmia tenerrima Renault & Cardot = *Grimmia sessitana* De Notaris

Grimmia texicana Greven [Greven 2010]

Grimmia trichophylla Grev. [Worthington 2011]

Grimmia ingeri of New Mexico reports = *Grimmia alpestris* (Weber & Mohr) Schleicher

Grimmia wrightii (Sullivant in Gray) Austin = *Jaffuelobryum wrightii* (Sullivant in Gray) Thériot

Jaffuelobryum ranii (Austin) Thériot [Ireland et al. 1981]

Grimmia ranii Austin

Jaffuelobryum wrightii (Sullivant in Gray) Thériot [Bartram 1931; Mahler 1978]

Coscinodon wrightii Sullivant in Gray

Grimmia wrightii (Sullivant in Gray) Austin

Schistidium alpicola of Amer. authors = *Schistidium rivulare* (Bridel) Podpera

Schistidium ambiguum Sullivant = *Schistidium apocarpum* (Hedwig) Bruch & Schimper

Schistidium apocarpum (Hedwig) Bruch & Schimper [Bartram 1931; Mahler 1978]

Grimmia apocarpa Hedwig

Grimmia apocarpa Hedwig var. *ambigua* (Sullivant) G. Jones in Grout

Grimmia apocarpa Hedwig var. *conferta* (Funck) Sprengel

Grimmia apocarpa Hedwig var. *stricta*

Grimmia converta Funck var. *obtusifolia* Schimper

Schistidium ambiguum Sullivant

Schistidium atrofusum (Schimper) Limpricht [McIntosh 2007]

Schistidium frigidum H.H. Blom [McIntosh 2007]

Schistidium rivulare (Bridel) Podpera var. *latifolium* (Zetterstedt) Crum & Anderson = *Schistidium rivulare* (Bridel) Podpera

Schistidium rivulare (Bridel) Podpera [Bartram 1931; Mahler 1978]

Grimmia alpicola of Amer. authors

Grimmia alpicola Swartz ex Hedwig var. *rivularis* (Bridel) Wahlenberg

Schistidium alpicola of Amer. authors

Schistidium rivulare (Bridel) Podpera var. *latifolium* (Zetterstedt) Crum & Anderson

Family HEDWIGIACEAE

Braunia secunda (Hooker) Bruch, Schimper, & Gumbel [Allred et al. 1998]

Hedwigia ciliata (Hedwig) P. Beauvois [Bartram 1931; Mahler 1978]

Family HYLOCOMIACEAE

Hylocomium splendens (Hedwig) Schimper [Bartram 1931; Mahler 1978]

Pleurozium schreberi (Bridel) Mitten [Mahler 1985]

Family HYPNACEAE

Breidleria arcuata (Lindberg) Loeske = *Calliergonella lindbergii* (Mitten) Hedenäs

Breidleria pratensis (Koch ex Spruce) Loeske [Allred et al. 1998]

Hypnum pratense (Rabenh.) Spruce

Calliergonella lindbergii (Mitten) Hedenäs [Bartram 1931; Mahler 1978]

Breidleria arcuata (Lindberg) Loeske

Hypnum lindbergii Mitten

Homomallium adnatum (Hedwig) Brotherus : Plants previously thought to be *Homomallium adnatum* have all been verified by Bruce Allen (MO) as *Homomallium mexicanum* Cardot

Homomallium mexicanum Cardot var. *latifolium* Cardot [Bartram 1931; Mahler 1978]

Homomallium mexicanum Cardot var. *mexicanum* [Bartram 1931; Mahler 1978]

Hypnum cupressiforme Hedwig var. *cupressiforme* [Bartram 1931; Little 1937]

Hypnum fluitans Hedwig = *Warnstorfia fluitans* (Hedwig) Loeske

Hypnum lindbergii Mitten = *Calliergonella lindbergii* (Mitten) Hedenäs



Hypnum pallescens (Hedwig) P. Beauvois [Stark & Castetter 1982]
Hypnum pratense (Rabenh.) Spruce = *Breidleria pratensis* (Koch ex Spruce) Loeske

Hypnum revolutum (Mitten) Lindberg [Bartram 1931; Mahler 1978]

Hypnum vaucheri Lesquereux [Ireland et al. 1981]

Hypnum wahlenbergii F. Weber & Mohr = *Pohlia wahlenbergii* (F. Weber & Mohr) Andrews

Isopterygiopsis pulchella (Hedwig) Iwatsuki [Allred et al. 1998]

Isopterygium pulchellum (Hedwig) Jaeger

Plagiothecium pulchellum (Hedwig) Schimper

Isopterygium homomallifolium Redfearn = *Pseudotaxiphyllum homomallifolium* (Redfearn) Ireland

Isopterygium pulchellum (Hedwig) Jaeger = *Isopterygiopsis pulchella* (Hedwig) Iwatsuki

Isopterygium tenerum Mitten [Allred et al. 1998]

Platygyrium fuscoluteum Cardot [Mahler 1978; Reese 1999]

Pseudotaxiphyllum homomallifolium (Redfearn) Ireland [Ireland et al. 1984]

Isopterygium homomallifolium Redfearn

Pylaisia polyantha (Hedwig) Schimper [Bartram 1931; Mahler 1978]

Pylaisiella polyantha (Hedwig) Grout

Pylaisia selwynii (Kindberg) Crum, Steere, & L.E. Anderson [Allred 2011]

Pylaisiella polyantha (Hedwig) Grout = *Pylaisia polyantha* (Hedwig) Schimper

Taxiphyllum deplanatum (Bruch & Schimper ex Sullivant) Fleischer [Bartram 1931; Mahler 1978]

Taxiphyllum taxirameum (Mitten) Fleischer [Mahler 1978]

Family LESKEACEAE

Bryohaplocladium angustifolium (Hampe & Müller Hal.) Watson & Iwatsuki = *Haplocladium angustifolium* (Hampe & Müller Hal.) Brotherus

Bryohaplocladium microphyllum (Hedwig) Watson & Iwatsuki = *Haplocladium microphyllum* (Hedwig) Brotherus

Claopodium pellucinerve (Mitten) Best [Mahler 1978]

Haplocladium angustifolium (Hampe & Müller Hal.) Brotherus [Allred et al. 1998]

Bryohaplocladium angustifolium (Hampe & Müller Hal.) Watson & Iwatsuki

Haplocladium microphyllum (Hedwig) Brotherus [Bartram 1931; Mahler 1978; Stark & Castetter 1986]

Bryohaplocladium microphyllum (Hedwig) Watson & Iwatsuki

Leptopterigynandrium austro-alpinum Müller Hal. [Allred et al. 1998]

Lescuraea arizonae (Williams) P. Wilson & Norris = *Pseudoleskeella arizonae* (Williams) Lawton

Lescuraea incurvata (Hedwig) Lawton = *Pseudoleskea incurvata* (Hedwig) Loeske

Lescuraea saxicola (Schimper) Milde [Mahler 1985]

Leskeella nervosa (Bridel) Loeske var. *nervosa* [Stark & Castetter 1986]

Pseudoleskeella nervosa (Bridel) Nyholm

Leskeella nervosa (Bridel) Loeske var. *sibirica* (Arnell) Brotherus [Crum & Anderson 1981, as *Pseudoleskeella catenulata* (Schrader) Kindberg]

Pseudoleskeella sibirica (Arnell) P. Wilson & Norris

Pseudoleskeella rupestris (Berggren) Hedenas & Soderstrom

Lindbergia brachyptera (Mitten) Kindberg [Bartram 1931; Mahler 1978]

Lindbergia mexicana (Bescherelle) Cardot ex Pringle [Bartram 1949]

Pseudoleskea incurvata (Hedwig) Loeske [Mahler 1985]

Lescuraea incurvata (Hedwig) Lawton

Pseudoleskea radicata (Mitten) Macoun & Kindberg [Worthington 1996]

Pseudoleskeella arizonae (Williams) Lawton [Bartram 1931; Mahler 1978]

Lescuraea arizonae (Williams) P. Wilson & Norris

Pseudoleskeella nervosa (Bridel) Nyholm = *Leskeella nervosa* (Bridel) Loeske var. *nervosa*

Pseudoleskeella rupestris (Berggren) Hedenas & Soderstrom = *Leskeella nervosa* (Bridel) Loeske var. *sibirica* (Arnell) Brotherus

Pseudoleskeella sibirica (Arnell) P. Wilson & Norris = *Leskeella nervosa* (Bridel) Loeske var. *sibirica* (Arnell) Brotherus

Pseudoleskeella tectorum var. *flagellifera* (Best) Amann = *Pseudoleskeella tectorum* (Funck ex Bridel) Kindberg

Pseudoleskeella tectorum (Funck ex Bridel) Kindberg [Bartram 1931; Mahler 1978]

Pseudoleskeella tectorum var. *flagellifera* (Best) Amann

Family MEESIACEAE

Leptobryum pyriforme (Hedwig) Wilson [Bartram 1931; Mahler 1978]

Family MNIACEAE

Mnium arizonicum Amann [Bartram 1931; Mahler 1978]

Mnium blyttii Bruch & Schimper [Bartram 1931; Mahler 1978]

Mnium crudum Hedwig = *Pohlia cruda* (Hedwig) Lindberg

Mnium marginatum (Dickson ex Withering) Bridel ex P. Beauvois [Bartram 1931; Mahler 1978]

Mnium thomsonii Schimper [Bartram 1931; Mahler 1978]

Plagiomnium cuspidatum (Hedwig) Koponen [Bartram 1931; Mahler 1978]

Plagiomnium ellipticum (Bridel) T. Koponen [Allred et al. 1998]

Plagiomnium rostratum (Schrader) T. Koponen [Bartram 1931; Mahler 1978]

Pohlia bolanderi (Sullivant) Brotherus [BFNA ined.]

Bryum bolanderi Sullivant

Pohlia cruda (Hedwig) Lindberg [Bartram 1931; Mahler 1978]

Mnium crudum Hedwig

Pohlia drummondii (Müller Hal.) Andrews [Stark & Castetter 1982]

Bryum drummondii Müller Hal.

Pohlia elongata Hedwig var. *elongata* [Allred et al. 1998]

Pohlia longicollis (Hedwig) Lindberg [BFNA ined.]

Weberia longicollis Hedwig

Pohlia nutans (Hedwig) Lindberg [Bartram 1931; Mahler 1978]

Pohlia tundrae A.J. Shaw [BFNA ined.]

Pohlia wahlenbergii (F. Weber & Mohr) Andrews [Ireland et al. 1981]

Hypnum wahlenbergii F. Weber & Mohr

Rhizomnium magnifolium (Horik.) T. Koponen [Crum & Anderson 1981, as *Mnium punctatum*]

Rhizomnium pseudopunctatum (Bruch & Schimper) Koponen [Mahler 1985]

Rhizomnium punctatum (Hedwig) T. Koponen [Allred et al. 1998]

Family NECKERACEAE

Metaneckera menziesii (Hooker) Steere [Cardot 1910; Mahler 1978]

Porotrichum neomexicanum (Cardot) Wagner

Neckera pennata Hedwig var. *pennata* [Bartram 1931; Mahler 1978]

Neckera pennata Hedwig var. *tenera* Müller Hal.

Neckera pennata Hedwig var. *tenera* Müller Hal. = *Neckera pennata* Hedwig

Porotrichum neomexicanum (Cardot) Wagner = *Metaneckera menziesii* (Hooker) Steere

Family ORTHOTRICHACEAE

Orthotrichum alpestre Hornschuch ex Bruch & Schimper [Mahler 1978]

Orthotrichum anomalum Hedwig [Bartram 1931; Mahler 1978]

Orthotrichum diaphanum Bridel [Mahler 1978]

Orthotrichum hallii Sullivant & Lesquereux in Sullivant [Bartram 1931; Mahler 1978]

Orthotrichum laevigatum Zetterstedt [Allred et al. 1998]

Orthotrichum obtusifolium Bridel [Mahler 1978]

Orthotrichum pumilum Swartz [Mahler 1978]

Orthotrichum pycnophyllum Schimper [Vitt 1973]

Orthotrichum rupestre Schleicher ex Schwägrichen [Bartram 1931; Mahler 1978]

Orthotrichum tenellum Bruch ex Bridel : Reported by Mahler (1978), but this species occurs in the West Coast states and Nevada, and is not likely in NM; our material most likely referred to *Orthotrichum pumilum* Swartz.

Zygodon viridissimus (Dickson) Bridel var. *rupestris* Lindberg ex Hartman [Bartram 1931; Mahler 1978]

Zygodon viridissimus (Dickson) Bridel var. *vulgaris* Malta

Zygodon viridissimus (Dickson) Bridel var. *vulgaris* Malta = *Zygodon viridissimus* (Dickson) Bridel var. *rupestris* Lindberg ex Hartman



Family PLAGIOTHECIACEAE

- Plagiothecium denticulatum* (Hedwig) Schimper [Ireland et al. 1981]
Plagiothecium laetum Schimper [Mahler 1978]
Plagiothecium pulchellum (Hedwig) Schimper = *Isopterygiopsis pulchella* (Hedwig) Iwatsuki

Family POLYTRICHACEAE

- Atrichum rupestre* Hedwig : Reported by Mahler (1985), but not included in North America by Smith-Merrill (2007); awaits verification.
Atrichum selwynii Austin [Mahler 1985; Smith-Merrill 2007]
Atrichum undulatum (Hedwig) P. Beauvois : Reported by Bartram (1931) and Mahler (1978), but scarcely in North America fide Smith-Merrill (2007); specimens await correct determination.
Meiotrichum lyallii (Mitten) G.L. Smith [Conard & Redfearn 1979; Smith-Merrill 2007]
Polytrichum lyallii (Mitten) Kindberg
Pogonatum alpinum (Hedwig) Rhl. = *Polytrichastrum alpinum* (Hedwig) G.L. Smith
Polytrichastrum alpinum (Hedwig) G.L. Smith var. *alpinum* [Bartram 1931; Mahler 1985]
Pogonatum alpinum (Hedwig) Rhl.
Polytrichastrum ohioense (Renauld & Cardot) G.L. Smith [Smith-Merrill 2007]
Polytrichastrum sexangulare (Bridel) G.L. Smith [Mahler 1978]
Polytrichum juniperinum Hedwig [Bartram 1931; Mahler 1978]
Polytrichum lyallii (Mitten) Kindberg = *Meiotrichum lyallii* (Mitten) G.L. Smith
Polytrichum piliferum Hedwig [Mahler 1985; Smith-Merrill 2007]
Polytrichum sexangulare Bridel = *Polytrichastrum sexangulare* (Bridel) G.L. Smith

Family POTTIACEAE

- Aloina rigida* (Hedwig) Limpricht var. *rigida* [Delgadillo-M. 2007; Mahler 1978]
Anoetangium obtusifolium (Brotherus & Paris in Cardot) Grout = *Molendoa sendtneriana* (Bruch & Schimper) Limpricht
Astonium phascoides (Drumm.) Grout = *Weissia phascopsis* Zander
Barbula acuta (Bridel) Bridel = *Didymodon rigidulus* Hedwig var. *gracilis* (Schleicher ex Hooker & Greville) Zander
Barbula acuta (Bridel) Bridel var. *bescherellei* (Sauerbeck ex Jaeger) Crum = *Didymodon rigidulus* Hedwig var. *gracilis* (Schleicher ex Hooker & Greville) Zander
Barbula bescherelei Sauerbeck = *Didymodon rigidulus* Hedwig var. *gracilis* (Schleicher ex Hooker & Greville) Zander
Barbula bolleana (Müller Hal.) Brotherus [Eckel 1988; Zander 2007]
Barbula ehrenbergii (Lorentz) Fleischer
Barbula convoluta Hedwig var. *convoluta* [Zander 2007]
Barbula ehrenbergii (Lorentz) Fleischer = *Barbula bolleana* (Müller Hal.) Brotherus
Barbula gracilis Schwägrichen = *Didymodon rigidulus* Hedwig var. *gracilis* (Schleicher ex Hooker & Greville) Zander
Barbula indica (Hooker) Sprengel var. *indica* [Zander 2007]
Barbula reflexa (Bridel) Bridel = *Didymodon ferrugineus* (Schimper ex Bescherele) M.O. Hill
Barbula sinensis Müller Hal. = *Syntrichia sinensis* (Müller Hal.) Ochyra
Barbula spiralis (Schimper) ex Müller Hal. = *Pseudocrossidium replicatum* (Taylor) Zander
Barbula unguiculata Hedwig [Bartram 1931; Mahler 1978]
Bryoerythrophyllum recurvirostre (Hedwig) Chen [Bartram 1931; Mahler 1978]
Bryoerythrophyllum recurvirostre (Hedwig) Chen var. *dentatum* (Schimper) Crum et al.
Didymodon recurvirostris Hedwig
Bryoerythrophyllum recurvirostre (Hedwig) Chen var. *dentatum* (Schimper) Crum et al. = *Bryoerythrophyllum recurvirostre* (Hedwig) Chen
Chenia leptophylla (Müller Hal.) Zander [Ireland et al. 1984]
Chenia rhizophylla Sakurai Zander

Tortula rhizophylla (Sakurai) Iwatsuki & Saito

- Crossidium aberrans* Holzinger & Bartram [Ireland et al. 1981]
Crossidium crassinervium (De Notaris) Juratzka var. *crassinervium* [Stark & Castetter 1986]
Crossidium seriatum Crum & Steere [Delgadillo-M. 1996]
Desmatodon cernuus (Hübner) Bruch & Schimper = *Tortula cernua* (Hübner) Lindberg
Desmatodon convolutus (Bridel) Grout = *Tortula atrovirens* (J.E. Smith) Lindberg
Desmatodon guenpinii Bruch & Schimper = *Tortula guenpinii* (Bruch & Schimper) Brotherus
Desmatodon heimii (Hedwig) Mitten = *Hennediella heimii* (Hedwig) Zander
Desmatodon latifolius (Hedwig) Bridel = *Tortula euryphylla* Zander
Desmatodon latifolius (Hedwig) Bridel var. *muticus* (Bridel) Bridel = *Tortula hopeana* (Schultz) Ochyra
Desmatodon obtusifolius (Schwägrichen) Schimper = *Tortula obtusifolia* (Schwägrichen) Mathey
Desmatodon plinthobius Sull & Lesquereux = *Tortula plinthobia* (Sullivant & Lesquereux) Austin
Didymodon anserinocapitatus (X.-j. Li) Zander [Zander & Weber 1997]
Didymodon acutus (Bridel) Saito = *Didymodon rigidulus* Hedwig
Didymodon australasiae (Greville & Hooker) Zander [Stark & Castetter 1986; Ireland et al. 1984]
Husnotiella torquescens (Cardot) Bartram
Trichostomopsis australasiae (Greville & Hooker) Robinson
Didymodon australasiae (Hooker & Greville) Zander var. *umbrosus* (Müller Hal.) Zander = *Didymodon umbrosus* (Müller Hal.) Zander
Didymodon brachyphyllus (Sullivant) Zander [Zander & Ochyra 2001]
Didymodon luridus of NM reports
Didymodon fallax (Hedwig) Zander [Zander 2007]
Didymodon fallax (Hedwig) Zander var. *reflexus* (Bridel) Zander = *Didymodon ferrugineus* (Schimper ex Bescherele) M.O. Hill
Didymodon ferrugineus (Schimper ex Bescherele) M.O. Hill [Bartram 1931; Mahler 1978]
Barbula reflexa (Bridel) Bridel
Didymodon fallax (Hedwig) Zander var. *reflexus* (Bridel) Zander
Didymodon luridus of NM reports = *Didymodon brachyphyllus* (Sullivant) Zander
Didymodon nevadensis Zander [Zander 2007]
Didymodon recurvirostris Hedwig = *Bryoerythrophyllum recurvirostre* (Hedwig) Chen
Didymodon revolutus (Cardot) Williams [Stark & Castetter 1982]
Didymodon rigidulus Hedwig var. *gracilis* (Schleicher ex Hooker & Greville) Zander [Bartram 1931; Mahler 1978; Stark & Castetter 1986]
Barbula acuta Bridel
Barbula acuta (Bridel) Bridel var. *bescherellei* (Sauerbeck ex Jaeger) Crum
Barbula bescherelei Sauerbeck
Didymodon acutus (Bridel) Saito
Didymodon rigidulus Hedwig var. *icmadophilus* (Müller Hal.) Zander [Allred et al. 1998]
Didymodon rigidulus Hedwig var. *rigidulus* [Bartram 1931]
Didymodon tectorum (Müller Hal.) Saito [Zander & Ochyra 2001]
Didymodon tophaceus (Bridel) Lisa [Bartram 1931; Mahler 1978]
Didymodon trifarius (Hedwig) Rhl. = *Saelania glaucescens* (Hedwig) Brotherus (Ditrichaceae)
Didymodon umbrosus (Müller Hal.) Zander [Zander 2007]
Didymodon australasiae (Hooker & Greville) R.H. Zander var. *umbrosus* (Müller Hal.) R.H. Zander
Didymodon vinealis (Bridel) Zander var. *luridus* of NM reports = *Didymodon brachyphyllus* (Sullivant) Zander
Didymodon vinealis (Bridel) Zander var. *vinealis* [Stark & Castetter 1982]
Eucladium verticillatum (Bridel) Bruch & Schimper [Bartram 1931; Mahler 1978]
Gymnostomum aeruginosum Smith [Bartram 1931; Mahler 1978]
Gymnostomum calcareum of NM reports
Gymnostomum calcareum of NM reports = *Gymnostomum aeruginosum* Smith
Hennediella heimii (Hedwig) Zander var. *heimii* [Bartram 1931; Mahler 1978]



- Desmatodon heimii* (Hedwig) Mitten
Pottia heimii (Hedwig) Hampe
Husnotiella torquescens (Cardot) Bartram = *Didymodon australasiae* (Greville & Hooker) Zander
Hymenostomum tortile (Schwägrichen) Bruch & Schimper = *Weissia condensata* (Voit) Lindberg
Hymenostylium recurvirostrum (Hedwig) Dixon var. *recurvirostrum* [Bartram 1931; Mahler 1978]
Leptodontium flexifolium (Withering) Hampe in Lindberg [Mahler 1978]
Microbryum davallianum (Smith) R.H. Zander var. *conicum* (Schwägrichen) R. H. Zander [Reported tentatively by Worthington 1996]
Pottia texana Wareham
Microbryum starkeanum (Hedwig) R.H. Zander [Ireland et al. 1981]
Pottia arizonica Wareham var. *mucronulata* Wareham
Molendia sendtneriana (Bruch & Schimper) Limpricht [Ireland et al. 1981; Stark & Castetter 1982]
Anoetangium obtusifolium (Brotherus & Paris in Cardot) Grout
Neocardotia subnigra (Mitten) Thériot & Bartram = *Rhexophyllum subnigrum* (Mitten) Thériot ex Hilpert
Oxystegus tenuirostris (Hooker & Taylor) A.J.E. Smith = *Trichostomum tenuirostre* (Hooker & Taylor) Lindberg
Phascum cuspidatum Hedwig = *Tortula acaulon* (Withering) Zander
Pleurochaete luteola (Bescherelle) Thériot [Mahler 1978]
Pleurochaete squarrosa of New World reports
Pleurochaete squarrosa of New World reports = *Pleurochaete luteola* (Bescherelle) Thériot
Pottia arizonica Wareham var. *mucronulata* Wareham = *Microbryum starkeanum* (Hedw.) R. H. Zander [Ireland et al. 1981]
Pottia bryoides (Dickson) Mitten = *Tortula protobryoides* R.H. Zander
Pottia heimii (Hedwig) Hampe = *Hennediella heimii* (Hedwig) Zander
Pottia nevadensis Cardot & Thériot = *Tortula nevadensis* (Cardot & Thériot) R.H. Zander
Pottia texana Wareham = *Microbryum davallianum* (Smith) R.H. Zander var. *conicum* (Schwägrichen) R. H. Zander [Reported tentatively by Worthington 1996]
Pseudocrossidium crinitum (Schultz) Zander [Mahler 1978]
Pseudocrossidium aureum (Bartram) Zander
Tortula aurea Bartram
Pseudocrossidium aureum (Bartram) Zander = *Pseudocrossidium crinitum* (Schultz) Zander
Pseudocrossidium obtusulum (Lindberg) Crum [Zander 2007]
Pseudocrossidium replicatum (Taylor) Zander [Mahler 1978, as *Barbula spiralis*]
Barbula spiralis (Schimper) ex Müller Hal.
Pterygoneurum cavifolium (Ehrh.) Juratzka = *Pterygoneurum ovatum* (Hedwig) Dixon
Pterygoneurum ovatum (Hedwig) Dixon [Mahler 1978]
Pterygoneurum cavifolium (Ehrh.) Juratzka
Pterygoneurum sessile (Bridel) Juratzka var. *sessile* [Ireland et al. 1981]
Rhexophyllum subnigrum (Mitten) Thériot ex Hilpert [Bartram 1931; Mahler 1978]
Neocardotia subnigra (Mitten) Thériot & Bartram
Stegonia latifolia (Schwägrichen) Venturi ex Brotherus var. *latifolia* [Zander 2007]
Syntrichia bartramii (Steere) Zander [Mahler 1978]
Tortula bartramii Steere in Grout
Syntrichia caninervis Mitten [Flowers 1973, as *Tortula bistratosa* Flowers]
Tortula bistratosa Flowers
Tortula caninervis (Mitten) Brotherus
Syntrichia chisoa (Magill, Delgadillo, & Stark) Zander [Magill et al. 1983; Stark & Castetter 1986]
Tortula chisoa Magill, Delgadillo, & Stark
Syntrichia fragilis (Taylor) Ochyra [Bartram 1931; Mahler 1978]
Tortula fragilis Taylor
Syntrichia inermis (Bridel) Bruch = *Tortula inermis* (Bridel) Montagne
Syntrichia laevipila Bridel [Bartram 1931; Mahler 1978]
Tortula pagorum (Milde) De Notaris
Syntrichia montana Nees [Allred et al. 1998; Mishler 2007]
Tortula intermedia (Bridel) Berkeley
Tortula montana (Nees) Lindberg
Syntrichia norvegica Weber & Mohr [Allred et al. 1998; Flowers 1973]
Tortula norvegica (Weber & Mohr) Wahlenberg ex Lindberg
Syntrichia obtusissima (Müller Hal.) Zander [Ireland et al. 1981]
Tortula obtusissima (Müller Hal.) Mitten
Syntrichia pagorum (Milde) Amann = *Syntrichia laevipila* Bridel
Syntrichia papillosa (Wilson) Juratzka [Weber 1957]
Tortula papillosa Wilson
Syntrichia papillosissima (Coppey) Loeske [Flowers 1973]
Tortula papillosissima (Coppey) Brotherus
Tortula ruralis (Hedwig) Gaertner var. *hirsuta* (Venturi) Paris
Syntrichia ruralis (Hedwig) Weber & Mohr [Bartram 1931; Mahler 1978]
Tortula ruralis (Hedwig) Gaertner
Tortula ruralis (Hedwig) Gaertner et al. var. *crinita* De Notaris
Syntrichia sinensis (Müller Hal.) Ochyra [Mishler 2007]
Barbula sinensis Müller Hal.
Timmiella anomala (Bruch & Schimper) Limpricht [Stark & Castetter 1986]
Tortella humilis (Hedwig) Jennings [Ireland et al. 1981]
Tortella tortuosa (Hedwig) Limpricht [Stark & Castetter 1982]
Tortula aurea Bartram = *Pseudocrossidium crinitum* (Schultz) Zander
Tortula acaulon (Withering) Zander [Ireland et al. 1981; Zander & Eckel 2007]
Phascum cuspidatum Hedwig
Tortula atrovirens (J.E. Smith) Lindberg [Stark & Castetter 1986]
Desmatodon convolutus (Bridel) Grout
Tortula bartramii Steere in Grout = *Syntrichia bartramii* (Steere) Zander
Tortula bistratosa Flowers = *Syntrichia caninervis* Mitten
Tortula brevipes (Lesquereux) Brotherus [Allred et al. 1998]
Tortula caninervis (Mitten) Brotherus = *Syntrichia caninervis* Mitten
Tortula cernua (Hübner) Lindberg [Crum & Anderson 1981]
Desmatodon cernuus (Hb.) Bruch & Schimper
Tortula chisoa Magill, Delgadillo, & Stark = *Syntrichia chisoa* (Magill, Delgadillo, & Stark) Zander
Tortula euryphylla Zander = *Tortula hoppeana* (Schultz) Ochyra
Tortula fragilis Taylor = *Syntrichia fragilis* (Taylor) Ochyra
Tortula guepinii (Bruch & Schimper) Brotherus [Mahler 1978]
Desmatodon guepinii Bruch & Schimper
Tortula hoppeana (Schultz) Ochyra [Mahler 1978; Zander & Eckel 2007]
Desmatodon latifolius (Hedwig) Bridel
Desmatodon latifolius (Hedwig) Bridel var. *muticus* (Bridel) Bridel
Tortula euryphylla Zander
Tortula inermis (Bridel) Montagne [Mahler 1978]
Syntrichia inermis (Bridel) Bruch
Tortula intermedia (Bridel) Berkeley = *Syntrichia montana* Nees
Tortula montana (Nees) Lindberg = *Syntrichia montana* Nees
Tortula mucronifolia Schwägrichen [Bartram 1931; Mahler 1978]
Tortula nevadensis (Cardot & Thériot) R.H. Zander [Ireland et al. 1984]
Pottia nevadensis Cardot & Thériot
Tortula norvegica (Weber & Mohr) Wahlenberg ex Lindberg = *Syntrichia norvegica* Weber & Mohr
Tortula obtusifolia (Schwägrichen) Mathieu [Bartram 1931; Mahler 1978]
Desmatodon obtusifolius (Schwägrichen) Schimper
Tortula obtusissima (Müller Hal.) Mitten = *Syntrichia obtusissima* (Müller Hal.) Zander
Tortula pagorum (Milde) De Notaris = *Syntrichia laevipila* Bridel
Tortula papillosa Wilson = *Syntrichia papillosa* (Wilson) Juratzka
Tortula papillosissima (Coppey) Brotherus = *Syntrichia papillosissima* (Coppey) Loeske
Tortula ruralis (Hedwig) Gaertner var. *hirsuta* (Venturi) Paris
Tortula plinthobia (Sullivant & Lesquereux) Austin [Mahler 1978]
Desmatodon plinthobius Sullivant & Lesquereux
Tortula protobryoides R.H. Zander [Allred et al. 1998]
Pottia bryoides (Dickson) Mitten
Tortula rhizophylla (Sakurai) Iwatsuki & Saito = *Chenia leptophylla* (Müller Hal.) Zander
Tortula ruralis (Hedwig) Gaertner et al. var. *crinita* De Notaris = *Syntrichia ruralis* (Hedwig) Weber & Mohr
Tortula ruralis (Hedwig) Gaertner var. *hirsuta* (Venturi) Paris = *Syntrichia*



papillosissima (Coppey) Loeske
Tortula ruralis (Hedwig) Gaertner = *Syntrichia ruralis* (Hedwig) Weber & Mohr
Tortula ruralis (Hedwig) Gaertner et al. var. *crinita* De Notaris
Trichostomopsis australasiae (Greville & Hooker) Robinson = *Didymodon australasiae* (Greville & Hooker) Zander
Trichostomum brachydontium Bruch [Ireland et al. 1984]
Trichostomum crispulum Bruch [Ireland et al. 1984]
Trichostomum planifolium (Dixon) R.H. Zander [Stark 1996]
Weissia sweetii Bartram
Trichostomum sweetii (Bartram) Stark = *Trichostomum planifolium* (Dixon) R.H. Zander
Trichostomum tenuirostre (Hooker & Taylor) Lindberg [Ireland et al. 1984]
Oxystegus tenuirostris (Hooker & Taylor) A.J.E. Smith
Weissia andersoniana Zander = *Weissia ligulifolia* (Bartram) Grout
Weissia condensa (Voit) Lindberg : Not known from North America [Zander 2007]; reports of this species in NM refer to *Weissia controversa* Hedwig
Hymenostomum tortile (Schwägrichen) Bruch & Schimper
Weissia tortilis (Schwägrichen) Müller Hal.
Weissia controversa Hedwig [Bartram 1931; Mahler 1978]
Weissia condensa auct., non (Voit) Lindberg
Weissia viridula Hedwig
Weissia glauca Bartram = *Weissia ligulifolia* (Bartram) Grout
Weissia ligulifolia (Bartram) Grout [Ireland et al. 1981; Stark & Castetter 1982]
Weissia andersoniana Zander
Weissia glauca Bartram
Weissia phascopsis Zander [Eckel 1986]
Astonium phascoides (Drummond) Grout [not *Weissia phascoides* (Wilson) Müller Hal.]
Weissia sweetii Bartram = *Trichostomum planifolium* (Dixon) R.H. Zander
Weissia tortilis (Schwägrichen) Müller Hal. = *Weissia condensa* (Voit.) Lindberg
Weissia viridula Hedwig = *Weissia controversa* Hedwig

Family PTYCHOMITRIACEAE

Ptychomitrium serratum Bruch & Schimper [Worthington 2011]
Ptychomitrium sinense (Mitten) A. Jaeger [Ireland et al. 1984; Reese 1998]
Ptychomitrium leibergii Best
Ptychomitrium leibergii Best = *Ptychomitrium sinense* (Mitten) A. Jaeger

Family RHYTIDIACEAE

Rhytidium rugosum (Hedwig) Kindberg [Bartram 1931; Mahler 1978]

Family SPHAGNACEAE

Sphagnum fimbriatum Wilson [Coop 2002]

Family SPLACHNACEAE

Tayloria acuminata Hornschuch [Crum & Anderson 1981]

Family STEREOPHYLLACEAE

Stereophyllum radiculosum (Hooker) Mitten [Grout 1945; Mahler 1978]

Family TETRAPHIDACEAE

Tetraphis pellucida Hedwig [Allred et al. 1998]

Family THUIDIACEAE

Abietinella abietina (Hedwig) Fleischer [Bartram 1931; Mahler 1978]
Thuidium abietinum (Hedwig) Schimper
Thuidium abietinum (Hedwig) Schimper = *Abietinella abietina* (Hedwig) Fleischer
Thuidium assimile (Mittel) A. Jaeger [Bartram 1931; Mahler 1978]
Thuidium delicatulum (Hedwig) Schimper
Thuidium delicatulum (Hedwig) Schimper = *Thuidium assimile* (Mittel) A. Jaeger
Thuidium delicatulum (Hedwig) Schimper var. *radicans* (Kindberg) Crum et al. = *Thuidium philibertii* Limpricht
Thuidium philibertii Limpricht [Mahler 1978]
Thuidium delicatulum (Hedwig) Schimper var. *radicans* (Kindberg)

Crum et al.

Family TIMMIACEAE

Timmia austriaca Hedwig [Bartram 1931; Mahler 1978]
Timmia bavarica Hessler = *Timmia megapolitana* Hedwig var. *bavarica* (Hessler) Bridel
Timmia megapolitana Hedwig var. *bavarica* (Hessler) Bridel [Mahler 1978]
Timmia bavarica Hessler

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Calling All Inventories...

When visiting a particular area in New Mexico, have you ever wished you had a plant list for that region? There's a chance someone has been there before you and compiled just such a list. We would like to make available these sorts of regionalized inventories. Several are already online at the Range Science Herbarium web site: <http://aces.nmsu.edu/academics/rangescienceherbarium/index.html>. Just take the link on the left to "Reports, Plant Lists, and Floras for New Mexico," or go directly to <http://aces.nmsu.edu/academics/rangescienceherbarium/plant-lists-and-floras-f.html>. There you will find unpublished and downloadable plant lists for a variety of regions in the state, as well as published (but, alas, not downloadable) lists you can track down via libraries and the internet.

If you would like to contribute to this itemization of the flora of New Mexico, send your report to the editor (kallred@nmsu.edu).



Plant Distribution Reports

New records and significant distribution reports for New Mexico plants should be documented by complete collection information and disposition of a specimen (herbarium). Exotic taxa are indicated by an asterisk (*), endemic taxa by a cross (+). Comments [in brackets] are the editor's.

— Kelly W. Allred [New Mexico State University, MSC 3-I, Las Cruces, NM 88003]

Bryum lanatum (P. Beauvois) Bridel (Bryophyta, Bryaceae):
Hidalgo County: Peloncillo Mts, Clanton Draw, rocky pine-oak woodland, N31° 31.0217 W109° 1.0683, growing in soil crevices on basaltic boulder in gully, 5600 ft (1700 m), 19 Aug 2008, Kelly W. Allred 9659 (NMCR). Sandoval County: Valles Caldera National Preserve, along Rito de

los Indios, spruce-fir subalpine forest, N35 59.6733 W106 28.4591, growing on moist rocks, 9100 ft (2775 m), 28 Sep 2008, Kelly W. Allred 9787 (NMCR). Otero County: Sacramento Mts, Bailey Canyon, about 8,000 ft, on ground, conifer forest, 6 Dec 1980, Richard D. Worthington 6825 (COLO, NMCR, UTEP). [This has been known for some time from the state, but without formal documentation.]

Botany is the natural science that transmits the knowledge of plants.

— *Linnaeus*



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Kelly Allred, editor



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